

AMENDMENTS TO THE CLAIMS:

Please cancel claims 7-16 without prejudice.

Kindly amend claims 1-6, and add new claims 17 and 18 as follows.

The present listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A method for the production of heterologous proteinaceous substances in plant material, comprising the steps of:~~characterized in that~~

culturing plant material in a culture medium, wherein the plant material is protonema~~mass-tissue that produces heterologous proteinaceous substances; and~~

obtaining~~is used as plant material and that the heterologous proteinaceous substances~~
~~produced are obtained from the culture medium without disrupting the producing tissues or cells.~~

2. (Currently amended) The method according to claim 1, characterized in that ~~the~~
proteinaceous substances released into the culture medium are~~is~~ biologically active.

3. (Currently amended) The method according to claim 1, characterized in that thea
~~culture medium is used which is free from sugars, vitamins and phytohormones or functional~~
~~fragments thereof.~~

4. (Currently amended) The method according to claim 1, characterized in that the ~~moss~~ tissue is selected from the group consisting of mosses and~~including~~ liverworts.

5. (Currently amended) The method according to claim 14, characterized in that the ~~moss~~ tissue is selected from mosses of the group consisting of *Physcomitrella*, *Funaria*, *Sphagnum* and *Ceratodon*.

6. (Currently amended) The method according to claim 14, characterized in that the ~~moss~~ tissue is selected from liverworts of the group consisting of *Marchantia* and *Sphaerocarpos*.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (NEW) A method for the production of heterologous proteinaceous substances in plant material, comprising the steps of:

culturing plant material in a culture medium, wherein the plant material is protonema tissue that produces heterologous proteinaceous substances, wherein the protonema tissue is selected from the group consisting of *Physcomitrella*; and

obtaining the heterologous proteinaceous substances from the culture medium without disrupting producing tissues or cells.

18. (NEW) The method according to claim 17, wherein the protonema tissue is *Physcomitrella patens*.